

Title (en)  
A SYSTEM AND METHOD FOR IMPLEMENTING MESH NETWORK COMMUNICATIONS USING A MESH NETWORK PROTOCOL

Title (de)  
SYSTEM UND VERFAHREN ZUR IMPLEMENTIERUNG VON MESH-NETZWERK-KOMMUNIKATIONEN MITHILFE EINES MESH-NETZWERK-PROTOKOLLS

Title (fr)  
SYSTÈME ET PROCÉDÉ DE MISE EN UVRE DE COMMUNICATIONS PAR RÉSEAU MAILLÉ À L'AIDE D'UN PROTOCOLE DE RÉSEAU MAILLÉ

Publication  
**EP 2321983 A4 20120111 (EN)**

Application  
**EP 09811849 A 20090904**

Priority  
• US 2009005008 W 20090904  
• US 9411608 P 20080904

Abstract (en)  
[origin: WO2010027495A1] The following describes data structures, communication protocol formats and process flows for controlling and facilitating secure communications between the nodes of a mesh network, such as utility meters and gateway nodes comprising a utility network. The enabled processes include association, information exchange, route discovery and maintenance and the like for instituting and maintaining a secure mesh network.

IPC 8 full level  
**H04W 4/00** (2009.01); **H04L 12/56** (2006.01); **H04L 45/122** (2022.01); **H04L 45/42** (2022.01); **H04L 45/52** (2022.01)

CPC (source: EP US)  
**H04L 45/20** (2013.01 - US); **H04L 45/34** (2013.01 - EP US); **H04L 45/42** (2013.01 - EP US); **H04L 45/44** (2013.01 - EP US); **H04L 45/48** (2013.01 - EP US); **H04L 45/52** (2013.01 - EP US); **H04L 45/72** (2013.01 - US); **H04L 63/123** (2013.01 - EP US); **H04W 40/005** (2013.01 - EP US); **H04W 40/02** (2013.01 - US); **H04W 40/12** (2013.01 - EP US); **H04W 40/22** (2013.01 - EP US); **H04W 40/246** (2013.01 - EP US); **H04W 40/28** (2013.01 - EP US); **H04W 48/18** (2013.01 - EP US); **H04W 8/02** (2013.01 - EP US); **H04W 84/18** (2013.01 - EP US); **Y02D 30/70** (2020.08 - US)

Citation (search report)  
• [XP] WO 2009067251 A1 20090528 - TRILLIANT NETWORKS INC [US], et al  
• [A] GERLA, M.; PALNATI, P.; WALTON, S: "Multicasting Protocols for High-Speed, Wormhole-Routing Local Area Networks", ACM SIGCOMM COMPUTER COMMUNICATION REVIEW, ACM, 2 PENN PLAZA, SUITE 701 - NEW YORK USA, vol. 26, no. 4, 4 October 1996 (1996-10-04), New York, USA, pages 184 - 193, XP040086329  
• See references of WO 2010027495A1

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CN112671649A; WO2023055853A3

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**WO 2010027495 A1 20100311**; CA 2734953 A1 20100311; EP 2321983 A1 20110518; EP 2321983 A4 20120111; EP 2321983 B1 20180509; US 2010061272 A1 20100311; US 2014226667 A1 20140814; US 2017070941 A1 20170309; US 8699377 B2 20140415; US 9621457 B2 20170411; US 9942824 B2 20180410

DOCDB simple family (application)  
**US 2009005008 W 20090904**; CA 2734953 A 20090904; EP 09811849 A 20090904; US 201414182047 A 20140217; US 201615354506 A 20161117; US 55413509 A 20090904